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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/749,478	12/31/2003	J. Nelson Wright	341148018US	3939
69414 7590 09/29/2009 CALYPSO MEDICAL / PERKINS COIE, LLP				INER
P.O. BOX 1247			KISH, JAMES M	
SEATTLE, WA	E, WA 98111-1247		ART UNIT	PAPER NUMBER
			3737	
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			09/29/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)	
	10/749,478	WRIGHT ET AL.	
Office Action Summary	Examiner	Art Unit	
	JAMES KISH	3737	
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet wi	th the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the main earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNION 1.136(a). In no event, however, may a root will apply and will expire SIX (6) MON ute, cause the application to become AB	CATION. eply be timely filed THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).	
Status			
Responsive to communication(s) filed on 26 This action is FINAL . 2b)☑ The 3)☐ Since this application is in condition for allow closed in accordance with the practice under	nis action is non-final. vance except for formal matt	·	
Disposition of Claims			
4) Claim(s) 6-13 and 16 is/are pending in the all 4a) Of the above claim(s) is/are withdrest 5) Claim(s) is/are allowed. 6) Claim(s) 6-13 and 16 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and Application Papers	rawn from consideration.		
9)⊠ The specification is objected to by the Exami	ner		
10) ☐ The drawing(s) filed on 30 June 2004 is/are: Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct of the oath or declaration is objected to by the latest that any object to be latest that any object that any object to be latest that any object that an	a) accepted or b) ⊠ obje ne drawing(s) be held in abeyan ection is required if the drawing	ce. See 37 CFR 1.85(a). (s) is objected to. See 37 CFR 1.121(d)).
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure * See the attached detailed Office action for a li	ents have been received. ents have been received in A riority documents have been eau (PCT Rule 17.2(a)).	pplication No received in this National Stage	
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	Paper No(s	ummary (PTO-413))/Mail Date Iformal Patent Application 	

DETAILED ACTION

Response to Arguments

Applicant's arguments with respect to the claims have been considered but are moot in view of the new ground(s) of rejection.

Specification

The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

Drawings

The drawings are objected to because "iteratios" is a typographical error in Figure 7. Also, the replacement drawings dated 6/30/04 is not labeled as replacements. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application

must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 6, 9, 12 and 16 are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1, 10 and 12 of U.S. Patent No. 7,026,927. Although the conflicting claims are not identical, they are not patentably distinct from each other because both disclosures incorporate an excitation source, sensing coils, and receivers.

Claims 6, 9, 12 and 16 are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claim 1 of U.S. Patent No. 6,977,504. Although the conflicting claims are not identical, they are not patentably distinct from each other because both disclosures incorporate an excitation source, sensing coils, and receivers.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 6-7, 9-10, 12-13 and 16 are rejected under 35 U.S.C. 102(b) as being anticipated by Mate et al. (US Patent Pub. No. 2002/0193685) - herein referred to as Mate. Mate discloses a system for accurately locating and tracking the position of a target. The system includes an external excitation source, a plurality of sensors and a receiver ("a computer is coupled to the sensors and configured to use the marker measurements to identify a target isocenter"). These are all described in the Abstract of Mate.

Regardiong claims 7, 10 and 13, Mate teaches that data averaging may be utilized to reduce noise (*see* paragraph 56). This paragraph also discusses the update rate, which corresponds to the "iterations" as claimed.

Claims 6-13 and 16 are rejected under 35 U.S.C. 102(e) as being anticipated by Dimmer (US Patent Pub. No. 2003/0122653). Dimmer discloses a system for excitation of a leadless miniature marker. The system includes a source (see paragraph 69 and Figure 3), sensing coils (see Figure 3) and a receiver (see "Signal Processing Device" of Figure 3 – it should be noted that the entire signal processing device is being interpreted as the receiver). Figure 5 and paragraph 92 describe that a triangular waveform is used for the excitation magnetic field.

Regarding claims 7, 10 and 13, the system is taught as capable of use with unique markers which are excited and measured either simultaneously or <u>during unique</u> <u>time periods</u> (see paragraph 29). Therefore, the device is capable of providing multiple iterations. As illustrated, the signal processing device combines the data prior to input into the location algorithm

The applied reference has a common assignee with the instant application. Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not the invention "by another," or by an appropriate showing under 37 CFR 1.131.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 8 and 11 are rejected under 35 U.S.C. 103(a) as being obvious over Mate in view of Dimmer. Mate discloses a system for accurately locating and tracking the position of a target. The system includes an external excitation source, a plurality of sensors and a receiver. Paragraph 47 describes that an AC magnetic waveform is used to generate the excitation field. However, it is not explicitly described as being triangular. Dimmer teaches a system for excitation of a leadless miniature marker. Figure 5 and paragraph 92 describe that a triangular waveform is used for the excitation magnetic field. It would have been obvious to one of ordinary skill in the art at the time the invention was made to utilize a triangular waveform for the excitation source, as taught by Dimmer, as a matter of design choice. The triangular waveform would not provide unexpected results and would provide similar functionality as a square wave or sinusoidal.

The applied reference has a common assignee with the instant application.

Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art only under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 103(a) might be overcome by: (1) a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not an

invention "by another"; (2) a showing of a date of invention for the claimed subject matter of the application which corresponds to subject matter disclosed but not claimed in the reference, prior to the effective U.S. filing date of the reference under 37 CFR 1.131; or (3) an oath or declaration under 37 CFR 1.130 stating that the application and reference are currently owned by the same party and that the inventor named in the application is the prior inventor under 35 U.S.C. 104, together with a terminal disclaimer in accordance with 37 CFR 1.321(c). This rejection might also be overcome by showing that the reference is disqualified under 35 U.S.C. 103(c) as prior art in a rejection under 35 U.S.C. 103(a). See MPEP § 706.02(l)(1) and § 706.02(l)(2).

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JAMES KISH whose telephone number is (571)272-5554. The examiner can normally be reached on 8:30 - 5:00 ~ Mon. - Fri..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian Casler can be reached on 571-272-4956. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

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you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/BRIAN CASLER/ Supervisory Patent Examiner, Art Unit 3737

JMK